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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/005865

### A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' C07D333/46, A61K31/381, 35/78, A61P3/04, 3/10, 43/00,  
A23L1/30, C12N9/99

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' C07D333/46, A61K31/381, 35/78, A61P3/04, 3/10, 43/00,  
A23L1/30, C12N9/99

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004  
Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
CAplus (STN), REGISTRY (STN), MEDLINE (STN), EMBASE (STN), BIOSIS (STN),  
BIOTECHABS (STN), WPI (DIALOG), JSTPLUS (JOIS), JMEDPLUS (JOIS)

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Masayuki YOSHIKAWA et al., "Salacia-Zoku Shokubutsu no Polyphenol Seibun: $\alpha$ -Glucosidase Oyobi Aldose Reductase Sogai Kassei Seibun", Mangiferin, no Teiryo Bunseki, Journal of the Pharmaceutical Society of Japan, 2001, 121(5), pages 371 to 378, full text	2,3 1,4-6
Y		
X	YOSHIKAWA, M. et al., Kotalanol, a Potent $\alpha$ -Glucosidase Inhibitor with Thiosugar Sulfonium Sulfate Structure, from Antidiabetic Ayurvedic Medicine Salacia reticulata., Chem. Pharm.Bull., 1998, 46(8), pages 1339 to 1340	2,3 1,4-6
Y		

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"E" earlier application or patent but published on or after the international filing date

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"O" document referring to an oral disclosure, use, exhibition or other means

"&" document member of the same patent family

"P" document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the international search  
12 August, 2004 (12.08.04)

Date of mailing of the international search report  
31 August, 2004 (31.08.04)

Name and mailing address of the ISA/

Authorized officer

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International application No.  
PCT/JP2004/005865

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	YOSHIKAWA, M. et al., SALACINOL, POTENT ANTIDIABETIC PRINCIPLE WITH UNIQUE THIOSUGAR SULFONIUM SULFATE STRUCTURE FROM THE AYURVEDIC TRADICIONAL MEDICINE Salacia reticulata IN. SRI LANKA AND INDIA., Tetrahedron Lett., 1997, 38(48), pages 8367 to 8370	2,3 1,4-6
X	MATSUDA, H. et al., Antidiabetic Principles of Natural Medicines., IV., Aldose Reductase and $\alpha$ -Glucosidase inhibitors from the Roots of Salacia oblonga Wall. (Celastraceae): Structure of a New Friendelane-Type Triterpene, Kotalagenin 16-Acetate., Chem.Pharm.Bull., 1999, 47(12), pages 1725 to 1729	2,3 1,4-6
X	JP 2000-86653 A (Rankaayurubetikkahu Yakuhan Kabushiki Kaisha), 28 March, 2000 (28.03.00), Full text (Family: none)	2,3 1,4-6
X	JP 11-29472 A (Research Institute For Production Development), 02 February, 1999 (02.02.99), Full text & US 2002/0041904 A1 & US 6376682 B1	2,3 1,4-6
X	Osami KAJIMOTO et al., "Salacia reticulata Mizu Chushutsutsu ni Okeru Kyokaigata Oyobi Keisho 2-gata Tonyobyo Shorei ni Taisuru Rinsho Koka", Journal of Japanese Society of Nutrition, and Food Science, 2000, 53(5), pages 199 to 205, full text	2,3 5,6
X	JP 2001-103928 A (Fancl Corp.), 17 April, 2001 (17.04.01), Full text (Family: none)	2,3 5,6
Y	WO 01/49674 A2 (SIMON FRASER UNIVERSITY), 12 July, 2001 (12.07.01), Full text & AU 200126591 A & US 6455573 B1 & EP 1248779 A2 & CN 1404476 A & JP 2003-519220 A & US 2003/0191104 A1	1-6
A	JP 2002-104979 A (Nippon Kefia Kabushiki Kaisha), 10 April, 2002 (10.04.02), (Family: none)	5,6

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International application No.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X P,Y	Masayuki YOSHIKAWA et al., "Thai-san Salacia chinesis no Seibutsu Kassei: $\alpha$ -Glucosidase Sogai Kassei o Shihyo to shita Hinshitsu Hyoka", Journal of the Pharmaceutical Society of Japan, 2003, 123(10), pages 871 to 880	2,3 1,4-6
P,X P,Y	JP 2003-171299 A (Bio Venture Bank Co., Ltd.), 17 June, 2003 (17.06.03), (Family: none).	2,3 5,6